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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/708,655	03/17/2004	Sergi YUDANOV	07589.0051.NPUS01	2654
28694	7590 01/28/2005		EXAMINER	
TRACY W. DRUCE, ESQ.			MOULIS, THOMAS N	
NOVAK DRUCE & QUIGG LLP 1615 L STREET NW SUITE 850			ART UNIT	PAPER NUMBER
			3747	
WASHINGTON, DC 20036			DATE MAILED: 01/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Comments	10/708,655	YUDANOV, SERGI	
Office Action Summary	Examiner	Art Unit	
<u> </u>	Thomas N Moulis	3747	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
2a) This action is FINAL . 2b) ⊠ This	action is non-final.		
3) Since this application is in condition for allowar closed in accordance with the practice under E	•		
Disposition of Claims			
 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,4,7-9 and 12-16 is/are rejected. 7) Claim(s) 2,3,5,6,10 and 11 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceptable		Evaminer	
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·		
Replacement drawing sheet(s) including the correct			
11)☐ The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Summary		
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/27/04,3/30/04. 	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 improperly removes an element previously recited in independent claim 4.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 4, 7, 8, 9, 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Rodriquez-Amaya et al.

The reference discloses a fuel injection system for an internal combustion engine comprising a nozzle with an inlet; a cam-driven plunger forming a plunger chamber (22). The plunger chamber connected to the inlet of the nozzle; a common rail (62) for fuel; a

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control valve (60) between the plunger chamber (22) and the common rail (62). The control valve (60) controls communication between the plunger chamber and the common rail in response to electrical command signals. The reference also shows an electrically operated nozzle control valve (68) for controlling the opening and closing of the nozzle. Note feed pump (21) and pressure regulating check valves within the system. See Column 4, lines 10-40 describing the nozzle opening pressure, which is lower than the maximum rail pressure. See especially line 33.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rodriquez-Amaya et al.
- 5. Variable displacement hydraulic pumps are well known in the art. Variable speed, fixed displacement pumps are also well known in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate either type of pump into the fuel system of Rodriquez-Amaya et al. since they are well known and readily adaptable to various hydraulic systems with various pressure requirements.

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Allowable Subject Matter

6. Claims 2,3,5,6,10-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note the fuel injection systems having similar arrangements, including plural electric control valves.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas N Moulis whose telephone number is 703 308-2618. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 703 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas N Moulis Primary Examiner Art Unit 3747

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